IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Turpen et al.

Serial No.:

10/632,240

Filed:

August 1, 2003

For:

Method For Recovering Proteins From The Interstitial

Fluid of Plant Tissue

Attorney's Docket No.

N9525

Customer No.

34309

INFORMATION DISCLOSURE STATEMENT

To the Honorable Commissioner of Patents and Trademarks Washington, DC 20231

Sir:

Attached hereto are copies of the following Forms 1449 and Forms 892 previously filed with regard to various ones of the parent applications. These are being provided in this application for the convenient reference of the Examiner. Copies of the cited references are not being enclosed since they are available in the parent files.

- 1. Form PTO-892 (2 pages) mailed on January 23, 2003 Office Action in Application 10/119,330.
- 2. Form PTO-892 (1 page) mailed on October 31, 2001 Office Action in Application 09/726,648.
- 3. Form PTO-1449 (3 pages) received by USPTO on May 21, 2001 in Application 09/726,648.

- 4. Form PTO-1449 (3 pages) mailed to USPTO on May 21, 2001 with Information Disclosure Statement in Application 09/726,648.
- 5. Form PTO-892 (2 pages) mailed on April 26, 2001 with Office Action in Application 09/726,648.
- 6. Form PTO-892 (1 page) mailed on February 7, 2001 with Office Action in Application 09/500,554.
- 7. Form PTO-1449 (1 page) received by USPTO on November 9, 2000 in Application 09/500,554.
- 8. Form PTO-1449 (3 pages) received by USPTO on June 27, 2000 in Application 09/500,554.
- 9. Form PTO-1449 (1 page) mailed to USPTO on November 9, 2000 with Supplemental Information Disclosure Statement in Application 09/500,554.
- 10. Form PTO-1449 (3 pages) mailed to USPTO on June 27, 2000 with Information Disclosure Statement in Application 09/500,554.
- 11. Form PTO-1449 (1 page) mailed on August 30, 2000 with Office Action in Application 09/132,989.
- 12. Form PTO-1449 (1 page) mailed to USPTO on August 7, 2000 with Information Disclosure Statement in Application 09/132,989.
- 13. Form PCT/ISA/210 (3 pages) International Search Report mailed on March 28, 2000 in Application 09/132,989.
- 14. Form PTO-892 (1 page) mailed on February 25, 2000 with Notice of Allowability in Application 09/132,989.

- 15. Form PTO-892 (1 page) mailed on November 2, 1999 with Office Action in Application 09/132,989.
- 16. Form PTO-1449 (2 pages) received by USPTO on January 5, 1999 in Application 09/132,989.
- 17. Form PTO-892 (1 page) mailed on May 12, 1999 with Office Action in Application 09/132,989.
- 18. Form PTO-1449 (2 pages) mailed on January 5, 1999 with Information Disclosure Statement in Application 09/132,989.

Respectfully submitted,

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ATTORNEY FOR APPLICANT

CERTIFICATE OF FIRST CLASS MAILING

I hereby certify that this Information Disclosure Statement and copies of Forms PTO-1449, PTO-892 and International Search Report from prior applications are being deposited with the United States Postal Service as first class mail in an envelope addressed to:

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Claire Ulanoff

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Date

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Application/Control No. 10/119,330	Applicant(s)/Pa Reexamination TURPEN ET A	1	
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13	`a			U.S. PATENT DOCUMENTS	
*	7 & TR	Document Number ADEN Document Number LIS_5 837 836	Date MM-YYYY	Name	Classification
*	А	US-5,837,826	11-1998	Flickinger et al	530/413
*	В	US-6,284,875	09-2001	Turpen et ai	530/427
*	С	US-6,441,147-B1	08-2002	Turpen et al	530/427
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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	Т					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	De Neve et al. Assembly of an antibody Transgenic Research. 1993, Vol. 2, pages 227-237.
*	v	Harris et al. Protein Purification Methods. Oxford: IRL Press. 1989, pages 9, 10, 62.
*	w	Austin et al. An Overview of a Feasibility Study for the Production of Industrial Enzymes in Transgenic Alfalfa. Annals New York Academy of Science. 721:234-244 (1994).
*	х	De Wilde et al. Intact antigen-binding MAK23 antibody and Fab fragment accumulate in intercellular spaces of Arabidopsis thaliana. Plant Science. 114:223-241 (1996).

A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Part of Paper No. 8

Notice of References Cited

Application/Control No. Applicant(s)/Patent Under Reexamination 10/119,330 TURPEN ET AL. Art Unit

Examiner

Jeffrey E. Russel

Page 2 of 2 1654

U.S. PATENT DOCUMENTS

	_		U.S. PATENT DOCUMENTS	
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	Α	US-		
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	Klement. Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens. Phytopathological Notes. 55:1033-1034 (1965).
*	V	Parent et al. Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensitive plants infected with tobacco mosaic virus. Can. J. Bot. 62:564-569 (1984).
*	W	Trudel et al. Expression of Active Hen Egg Lysozyme in Transgenic Tobacco. Plant Science. 87(1):55-67 (1992).
	x	

A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 8

	•	Notice of Refer	ences Cited	. (<u>.</u> (pplication No 09 726 xaminer 5 . R	155el	pp	Turpen		1
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*A copy of this ref rence is not being funished with this Office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)

Part of Paper No.

ST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO. 08010135US02

09/726,648

APPLICANT

Thomas H. TURPEN, et al.

FILING DATE

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		U.S. PATE	NT DOCUMENTS		ŢĒ	CH CEI	NTER 16	300/2
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Mr.	4,885,248	12/5/89	Ahlquist	435	172.3		3/9/87	
Jel 1	5,173,410	12/22/92	Ahlquist	435	91		10/3/89	
KI	5,316,931	5/31/94	Donson et al.	435	17	2.3	7/31/92	
M	5,466,788	11/14/95	Ahlquist <i>et al.</i>	536	24	.1	8/25/94	
pr	5,500,360	3/19/96	Ahlquist et al.	435	17	2.3	3/14/94	
JA I	5,589,367	12/31/96	Donson et al.	435	17	2.3	1/19/94 5/22/95 6/7/95	
In	5,602,242	2/11/97	Ahlquist et,al.	536	23	.72		
Jel	5,627,060	5/6/97	Ahlquist <i>et al.</i>	435	17	2.3		
		FOREIGN PA	TENT DOCUMENTS					
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY		CLASS	SUBCLAS	S TRANSL	ATION
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	(Includin		REFERENCES , Date, Pertinent Pages	s, Etc.)				
	I		asibility Study for the OK Academy of Scient					-
M	•		ve Method for the Qua tein-Dye Binding," <i>Ana</i>			_		
			ling MAK33 antibody thaliana," Plant Science				ulate in	
M	Denecke <i>et al.</i> , *Prote Cell 2:51-59 (1990)	in Secretion i	n Plant Cells Can Occu	ır via a D	efault l	Pathway	," The Pl	ant
Firek et al., "Secretion of a functional single-chain Fv protein in transgenic tobacco plants and cell suspension cultures," Plant Molecular Biology 23:861-870 (1993)								
M	H itz et al., "Two Ap Physiol. 97:651-656		ylases Are Induced in T	obacco b	y Virus	Infection	n¹," Plant	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Jeffrey E. Russel

October 29, 2001

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LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO. 08010135US02	APPLICATION NO. 09/726,648
APPLICANT Thomas H. TURPEN, et a	ıl.
FILING DATE	GROUP

November 28, 2000

gr	Herbers et al., "A Thermostable Xylanase from Clostridium thermocellum Expressed at High Levels in the Apoplast of Transgenic Tobacco Has No Detrimental Effects and is Easily Purified," Bio/Technology 13:63-66 (1995)
gen	Jervis, L. and Pierpoint, W.S., "Purification technologies for plant proteins," Journal of Biotechnology 11:161-198 (1989)
pr	Jones, R. and Robinson, D., "Tansley Review No.17 Protein secretion in plants," New Phytology 111:567-597 (1989)
In	Kinai et al., "Processing and Secretion of a Virally Encoded Antifungal Toxin in Transgenic Tobacco Plants: Evidence for a Kex2p Pathway in Plants," The Plant Cell 7:677-688 (1995)
	Klement Z., "Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens, <i>Phytopathological Notes</i> 55:1033-1034 (1965)
Jen	Kumagai <i>et al.</i> , "Rapid, high-level expression of biologically active α-trichosanthin in transfected plants by an RNA viral vector," <i>Proc. Natl. Acad. Sci. USA</i> 90:427-430 (1993)
m	Liu et al., "In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix," Plant Science 121:123-131 (1996)
for	Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995)
pr	Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995)
m	Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996)
Ju	Melchers et al., "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and ß-1,3-glucanase in transgenic plants," Plant Molecular Biology 21:583-593 (1993)
	Parent, J. and Asselln, A., "Detection of pathogenesis-related proteins (PR-or-b) and of other proteins-in the Intercellular fluid of hypersensitive plants infected with topacco mosaic virus," Can. J. Bot. 02.564-569 (1984)
he	Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves," <i>Plant Physiol.</i> 53:317-318 (1974)
dr	Regalado, A. and Ricardo, C., "Study of the Intercellular Fluid of Healthy <i>Lupinus albus</i> Organs," <i>Plant Physiol.</i> 110:227-232 (1996)
m	Sato et al., "Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic Tobacco
m m m m	extracellular matrix," Plant Science 121:123-131 (1996) Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995) Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995) Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996) Melchers et al., "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and ß-1,3-glucanase in transgenic plants," Plant Molecular Biology 21:583-593 (1993) Parent, J. and Assellin, A., "Detection of pathogenesis-related proteins-(PR-or-b) and of other proteins-irr the Intercellular fluid of hypersensitive plants infected with tobacco mosale virus," Can. d. Bot. 92:364-369 (1984) Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves," Plant Physiol. 53:317-318 (1974) Regalado, A. and Ricardo, C., "Study of the Intercellular Fluid of Healthy Lupinus albus Organs," Plant Physiol. 110:227-232 (1996)



(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO.

08010135US02

APPLICATION NO.

09/726,648

APPLICANT

Thomas H. TURPEN, et al.

FILING DATE

GROUP

November 28, 2000

1633 [65]

M	and Yeast," Biochemical and Biophysical Research Communications 211(3):909-913 (1995)
M	Sijmons et al., "Production of Correctly Processed Human Serum Albumin in Transgenic Plants," Bio/Technology 8:217-221 (1990)
	*Trudel, J., et al. "Expression of Active Hen Egg Lysozyme in Transgenic Tebacco;" Plant. Seience, 87(1):55-67 (1992)
M	Turpen et al., "Malarial Epitopes Expressed on the Surface of Recombinant Tobacco Mosiac Virus," Bio/Technology 13:53-57 (1995)
ger	Van den Bulcke <i>et al.</i> , "Characterization of vacuolar and extracellular ß(1,3)-glucanases of tobacco: Evidence for a strictly compartmentalized plant defense system," <i>Proc. Natl. Acad. Sci. USA</i> 86:2673-2677 (1989)
M	Voss et al., "Reduced virus infectivity in N. tabacum secreting a TMV-specific full-size antibody," Molecular Breeding 1:39-50 (1995)

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO FORM 1449

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Thomas H. TURPEN, et al.	
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November 28, 2000	1633

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	4,885,248	12/5/89	Ahlquist	435	17	2.3	3/9/87							
	5,173,410	12/22/92	Ahlquist	435	91		10/3/89							
	5,316,931	5/31/94	Donson et al.	435	17	2.3	7/31/92							
	5,466,788	11/14/95	Ahlquist et al.	536	24	.1	8/25/94							
	5,500,360	3/19/96	Ahlquist et al.	435	17	2.3	3/14/94							
	5,589,367	12/31/96	Donson et al.	435	17	2.3	1/19/94							
	5,602,242	2/11/97	Ahlquist et al.	536	23	.72	5/22/95 6/7/95							
	5,627,060	5/6/97	Ahlquist et al.	435	17	2.3								
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De Wilde et al., "Intact antigen-binding MAK33 antibody and F _{ab} fragment accumulate in intercellular spaces of <i>Arabidopsis thaliana</i> ," <i>Plant Science</i> 114:233-241 (1996)														
	Denecke et al., "Protein Secretion in Plant Cells Can Occur via a Default Pathway," The Plant Cell 2:51-59 (1990)													
	Firek et al., "Secretion of a functional single-chain Fv protein in transgenic tobacco plants and cell suspension cultures," Plant Molecular Biology 23:861-870 (1993)													
	1		ylases Are Induced in To	obacco by	/ Virus	Infection	n¹," <i>Plant</i>	Heitz et al., "Two Apoplastic α-Amylases Are Induced in Tobacco by Virus Infection ¹ ," Plant Physiol. 97:651-656 (1991)						

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REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO. 08010135US02	APPLICATION NO. 09/726,648
Thomas H. TURPEN, et al.	
FILING DATE	GROUP
November 28, 2000	1633

Herbers et al., "A Thermostable Xylanase from Clostridium thermocellum Expressed at High Levels in the Apoplast of Transgenic Tobacco Has No Detrimental Effects and is Easily Purified," Bio/Technology 13:63-66 (1995)
Jervis, L. and Pierpoint, W.S., "Purification technologies for plant proteins," <i>Journal of Biotechnology</i> 11:161-198 (1989)
Jones, R. and Robinson, D., "Tansley Review No.17 Protein secretion in plants," New Phytology 111:567-597 (1989)
Kinai et al., "Processing and Secretion of a Virally Encoded Antifungal Toxin in Transgenic Tobacco Plants: Evidence for a Kex2p Pathway in Plants," The Plant Cell 7:677-688 (1995)
Klement, Z., "Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens," <i>Phytopathological Notes</i> 55:1033-1034 (1965)
Kumagai <i>et al.</i> , "Rapid, high-level expression of biologically active α-trichosanthin in transfected plants by an RNA viral vector," <i>Proc. Natl. Acad. Sci. USA</i> <u>90</u> :427-430 (1993)
Liu et al., "In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix," Plant Science 121:123-131 (1996)
Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995)
Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995)
Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996)
Melchers et al., "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and ß-1,3-glucanase in transgenic plants," Plant Molecular Biology 21:583-593 (1993)
Parent, J. and Asselin, A., "Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensitive plants infected with tobacco mosaic virus," Can. J. Bot. 62:564-569 (1984)
Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves," <i>Plant Physiol.</i> 53:317-318 (1974)
Regalado, A. and Ricardo, C., "Study of the Intercellular Fluid of Healthy <i>Lupinus albus</i> Organs," <i>Plant Physiol.</i> 110:227-232 (1996)
Sato et al., "Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic Tobacco

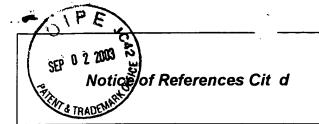


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PTO FORM 1449

ATTY. DOCKET NO. 08010135US02	APPLICATION NO. 09/726,648
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November 28, 2000	1633

·	and Yeast," Biochemical and Biophysical Research Communications 211(3):909-913 (1995)
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	*Trudel, J., et al. "Expression of Active Hen Egg Lysozyme in Transgenic Tobacco," Plant Science, 87(1):55-67 (1992)
	Turpen et al., "Malarial Epitopes Expressed on the Surface of Recombinant Tobacco Mosiac Virus," Bio/Technology 13:53-57 (1995)
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	Voss et al., "Reduced virus infectivity in N. tabacum secreting a TMV-specific full-size antibody," Molecular Breeding 1:39-50 (1995)



Application/Control No. 09/726,648	Reexamination	Applicant(s)/Patent Under Reexamination TURPEN ET AL.		
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Jeffrey E. Russel	1653	Page 1 of 2		

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classi	fication
*	Α	US-5,837,826-A	11-1998	Flickinger et al	530	413
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FOREIGN PATENT DOCUMENTS

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NON-PATENT DOCUMENTS

		NON-PAILIN DOCUMENTS
*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	De Neve et al. Assembly of an antibody Transgenic Research. 1993, Vol. 2, pages 227-237.
*	٧	Harris et al. Protein Purification Methods. Oxford: IRL Press. 1989, pages 9, 10, 62.
*	w	Austin et al. An Overview of a Feasibility Study for the Production of Industrial Enzymes in Transgenic Alfalfa. Annals New York Academy of Science. 721:234-244 (1994).
*	×	De Wilde et al. Intact antigen-binding MAK33 antibody and Fab fragment accumulate in intercellular spaces of Arabidopsis thaliana. Plant Science. 114:233-241 (1996).

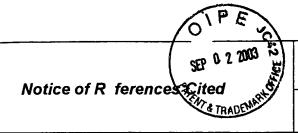
*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)

Dates in MM-YYYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 3



Application/Control No. 09/726,648

Applicant(s)/Patent Under Reexamination TURPEN ET AL.

Examiner

Jeffrey E. Russel

Art Unit 1653

Pag 2 of 2

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classil	ication
	Α	US				
	В	US				
	С	US				
	D	US				
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
*	U	Klement. Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens. Phytopathological Notes. 55:1033-1034(1965).
*	٧	Parent et al. Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensistive plants infected with tobacco mosaic virus. Can. J. Bot. 62:564-569 (1984).
*	w	Trudel et al. Expression of Active Hen Egg Lysozyme in Transgenic Tobacco. Plant Science. 87(1):55-67(1992).
	х	

*A copy of this reference is not being furnished with this Office action. (See MPEP, § 707.05(a).)

Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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					Application N	lo.	Applicant(s)		\ 1	
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L	_	<u> </u>		U.S. PATI	ENT DOCUME	NTS	·		· · · · ·	
*	1	DOCUMENT NO.	DATE			NAME			CLASS	SUBCLASS
*	A	3,910,822	10-7-1975	Pento	her e	الما		<u> </u>	435	200
3	₫в	3,972,777	8-3-1976	Yamad	a eta	1			132	208
X	C	4,104,125	8-1-1978	Take	echi et a	<u>, l</u>			135	206
X	0	5,597,569	1-28-1997	Sien	all et	<u>ا ا</u>	:		424	183,1
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^{*}A copy of this reference is not being funished with this Office action. (See Manual of Patent Examining Procedure, Section 707.05(a).)



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PTO FORM 1449.

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February 9, 2000

APPLICATION NO.

09/500,554

APPLICANT

Thomas H. TURPEN, et al.

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	LATION NO
(Including Author, Title, Date, Pertinent Pages, Etc.) Written Opinion of corresponding PCT Application (PCT/US99/18161), dated June 21, 2 Response to Written Opinion of Corresponding PCT Application (PCT/US99/18161), as submitted on September 20, 2000	X
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International Preliminary Examination of Corresponding PCT Application (PCT/US99/1816 dated October 18, 2000	1),

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO.

08010135US01

APPLICANT
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FILING DATE

GROUP
February 9, 2000

APPLICATION NO.

09/500,554

APPLICATION NO.

09/500,554

APPLICATION NO.

1633

U.S. PATENT DOCUMENTS								
*EXAMINER	DOCUMENT NUMBER	DATE NAME CLASS		CLASS	CLASS SUBCLASS		FILING DATE	
30	4,885,248	4,885,248 12/5/89 Ahlquist 435 172.3			3/9/87			
Jer 1	5,173,410 12/22/92 Ahlquist 435 91 10/3				10/3/89			
Jer 1	5,316,931 5/31/94 Donson <i>et al.</i> 435 172.3				7/31/92			
Je I	5,466,788	11/14/95	Ahlquist et al.	536	24	.1	8/25/94	
JR.	5,500,360	3/19/96	Ahlquist et al.	435	17	2.3	3/14/94	
John	5,589,367	12/31/96	Donson et al.	435	17	2.3	1/19/94	
Jan	5,602,242	2/11/97	Ahlquist et al.	536	23	.72	5/22/95	
In	5,627,060	5/6/97	Ahlquist et al.	435	17	2.3	6/7/95	
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In			easibility Study for the ork Academy of Science				•	es in
JR			ve Method for the Qua tein-Dye Binding," <i>Ana</i>			-		
m	De Wilde et al., "Intact antigen-binding MAK33 antibody and F™ fragment accumulate in intercellular spaces of Arabidopsis thaliana," Plant Science 114:233-241 (1996)							
In	Denecke <i>et al.</i> , "Prote Cell <u>2</u> :51-59 (1990)	in Secretion i	n Plant Cells Can Occu	ır via a De	efault	Pathwa	ıy, " The l	Plant
In	Firek et al., "Secretion of a functional single-chain Fv protein in transgenic tobacco plants and cell suspension cultures," Plant Molecular Biology 23:861-870 (1993)						s	
24	Heitz et al., "Two Apoplastic α-Amylases Are Induced in Tobacco by Virus Infection ¹ ," Plant Physiol. <u>97</u> :651-656 (1991)							

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Jeffrey E. Russel

February 2, 2001



(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO.

08010135US01

APPLICATION NO.

09/500,554

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Thomas H. TURPEN

FILING DATE

GROUP 1/5 3

February 9, 2000 4633

AV	Herbers et al., "A Thermostable Xylanase from Clostridium thermocellum Expressed at High Levels in the Apoplast of Transgenic Tobacco Has No Detrimental Effects and is Easily Purified," Bio/Technology 13:63-66 (1995)
m	Jervis, L. and Pierpoint, W.S., "Purification technologies for plant proteins," <i>Journal of Biotechnology</i> 11:161-198 (1989)
m	Jones, R. and Robinson, D., "Tansley Review No.17 Protein secretion in plants," New Phytology 111:567-597 (1989)
RE	Kinai <i>et al.</i> , "Processing and Secretion of a Virally Encoded Antifungal Toxin in Transgenic Tobacco Plants: Evidence for a Kex2p Pathway in Plants," <i>The Plant Cell</i> 7:677-688 (1995)
AL	Klement, Z., "Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens," <i>Phytopathological Notes</i> 55:1033-1034 (1965)
Ir	Kumagai <i>et al.</i> , "Rapid, high-level expression of biologically active α-trichosanthin in transfected plants by an RNA viral vector," <i>Proc. Natl. Acad. Sci. USA</i> <u>90</u> :427-430 (1993)
Ar	Liu et al., "In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix," Plant Science 121:123-131 (1996)
Sr	Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995)
82	Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995)
In	Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996)
Jan	Melchers <i>et al.</i> , "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and ß-1,3-glucanase in transgenic plants," <i>Plant Molecular Biology</i> <u>21</u> :583-593 (1993)
M	Parent, J. and Asselin, A., "Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensitive plants infected with tobacco mosaic virus," Can. J. Bot. 62:564-569 (1984)
J.C	Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves," <i>Plant Physiol.</i> <u>53</u> :317-318 (1974)
JP.	Regalado, A. and Ricardo, C., "Study of the Intercellular Fluid of Healthy <i>Lupinus albus</i> Organs," <i>Plant Physiol.</i> 110:227-232 (1996)
Dell	Sato et al., "Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Jeffrez E. Russel

February 2, 2001



(Use several sheets if necessary)

PTO FORM 1449

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08010135US01

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09/500,554

APPLICANT
Thomas H. TURPEN
FILING DATE
February 9, 2000

APPLICATION NO.
09/500,554

APPLICATION NO.
19/500,554

Pa	Tobacco and Yeast," Biochemical and Biophysical Research Communications 211(3):909-913 (1995)
KI	Sijmons <i>et al.</i> , "Production of Correctly Processed Human Serum Albumin in Transgenic Plants," <i>Bio/Technology</i> 8:217-221 (1990)
RC	*Trudel, J., et al. "Expression of Active Hen Egg Lysozyme in Transgenic Tobacco," Plant Science, 87(1):55-67 (1992)
m	Turpen et al., "Malarial Epitopes Expressed on the Surface of Recombinant Tobacco Mosiac Virus," Bio/Technology 13:53-57 (1995)
De	Van den Bulcke <i>et al.</i> , "Characterization of vacuolar and extracellular ß(1,3)-glucanases of tobacco: Evidence for a strictly compartmentalized plant defense system," <i>Proc. Natl. Acad. Sci. USA</i> <u>86</u> :2673-2677 (1989)
m	Voss <i>et al.</i> , "Reduced virus infectivity in <i>N. tabacum</i> secreting a TMV-specific full-size antibody," <i>Molecular Breeding</i> 1:39-50 (1995)

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Jeffrey E. Russel

February 2,2001



(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCK. 08010135US01	APPLICATION NO. 09/500,554
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	4,885,248	12/5/89	Ahlquist	435	17	2.3	3/9/87	
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	5,466,788	11/14/95	Ahlquist et al.	536	24	.1	8/25/94	
	5,500,360	3/19/96	Ahlquist et al.	435	17	2.3	3/14/94	
	5,589,367	12/31/96	Donson et al.	435	17	2.3	1/19/94	
	5,602,242	2/11/97	Ahlquist et al.	536	23	.72	5/22/95	
	5,627,060	5/6/97	Ahlquist et al.	435	17	2.3	6/7/95	
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	l l		easibility Study for the ork Academy of Science				-	es
	Bradford, M., "A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding," Anal. Biochem. 72:248-254 (1976)							
	ſ	_	ding MAK33 antibody thaliana," Plant Science		-		nulate in	
	Denecke <i>et al.</i> , "Prote Cell <u>2</u> :51-59 (1990)	ein Secretion i	n Plant Cells Can Occu	ır via a D	efault	Pathway	ı," The l	Pla
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	Heitz et al., "Two Ap Physiol. 97:651-656		ylases Are Induced in T	obacco b	y Virus	s Infection	n ¹ ," <i>Plant</i>	t

LIST OF REI

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

ATTY, DOCKET NO. 08010135US01	APPLICATION NO. 09/500,554
APPUCANT Thomas H. TURPEN	
FILING DATE	GROUP
February 9, 2000	1633

Herbers et al., "A Thermostable Xylanase from Clostridium thermocellum Expressed at High Levels in the Apoplast of Transgenic Tobacco Has No Detrimental Effects and is Easily Purified," Bio/Technology 13:63-66 (1995)
Jervis, L. and Pierpoint, W.S., "Purification technologies for plant proteins," <i>Journal of Biotechnology</i> 11:161-198 (1989)
Jones, R. and Robinson, D., "Tansley Review No.17 Protein secretion in plants," New Phytology 111:567-597 (1989)
Kinai et al., "Processing and Secretion of a Virally Encoded Antifungal Toxin in Transgenic Tobacco Plants: Evidence for a Kex2p Pathway in Plants," The Plant Cell 7:677-688 (1995)
Klement, Z., "Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens," <i>Phytopathological Notes</i> 55:1033-1034 (1965)
Kumagai <i>et al.</i> , "Rapid, high-level expression of biologically active α-trichosanthin in transfected plants by an RNA viral vector," <i>Proc. Natl. Acad. Sci. USA</i> <u>90</u> :427-430 (1993)
Liu et al., "In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix," Plant Science 121:123-131 (1996)
Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995)
Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995)
Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996)
Melchers et al., "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and ß-1,3-glucanase in transgenic plants," Plant Molecular Biology 21:583-593 (1993)
Parent, J. and Asselin, A., "Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensitive plants infected with tobacco mosaic virus," Can. J. Bot. 62:564-569*(1984)
Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves," <i>Plant Physiol.</i> <u>53</u> :317-318 (1974)
Regalado, A. and Ricardo, C., "Study of the Intercellular Fluid of Healthy <i>Lupinus albus</i> Organs," <i>Plant Physiol</i> . 110:227-232 (1996)
Sato et al., "Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic

LIST OF REF

LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

ATTY. DOCKET NO. 08010135US01	APPLICATION NO. 09/500,554
APPLICANT Thomas H. TURPEN	
FILING DATE	GROUP
February 9, 2000	1633

Tobacco and Yeast," Biochemical and Biophysical Research Communications 211(3):909-913 (1995)
Sijmons <i>et al.</i> , "Production of Correctly Processed Human Serum Albumin in Transgenic Plants," <i>Bio/Technology</i> 8:217-221 (1990)
*Trudel, J., et al. "Expression of Active Hen Egg Lysozyme in Transgenic Tobacco," Plant Science, 87(1):55-67 (1992)
Turpen et al., "Malarial Epitopes Expressed on the Surface of Recombinant Tobacco Mosiac Virus," Bio/Technology 13:53-57 (1995)
Van den Bulcke <i>et al.</i> , "Characterization of vacuolar and extracellular ß(1,3)-glucanases of tobacco: Evidence for a strictly compartmentalized plant defense system," <i>Proc. Natl. Acad. Sci. USA</i> 86:2673-2677 (1989)
Voss et al., "Reduced virus infectivity in N. tabacum secreting a TMV-specific full-size antibody," Molecular Breeding 1:39-50 (1995)

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LIST OF REFERENCES CITED BY APPLICANT

(Use several sheets if necessary)

PTO FORM 1449

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08010135999	09/132,989
APPLICANT	
Thomas H. TURPEN	
FILING DATE	GROUP
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X	Trudel, J., <i>et al.</i> "Exp <i>Science,</i> 87(1):55-67		tive Hen Egg Lysozyme	n Transg	enic 7	Γobacco,	" Plant	
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Jettrey E. Russe

August 21,2000



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APPLICANT Thomas H. TURPEN	
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Applicants Copy

	LIST	OF REFERENCES CITED (Use several sheets if n	<i></i>	00801.0135.999		09/132,989		
	•	PTO FORM 14	149	N 0 5 1999 8	APPLICANT Turpen et al. FILING DATE	The state of the s	4	and a second
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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NAME	CLASS	SUBCLASS	FLING DATE IF APPROPRIATE
134	,	4,885,248	12/5/89	Ahlquist	· · ·	435	172.3	3/9/87
35L		5,173,410	12/22/92	Ahlquist		435	91	10/3/89
XV		5,316,931	5/31/94	Donson et al.		435	172.3	7/31/92
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STA		5,500,360	3/19/96	Ahlquist et al.	المواقعة المحادث في المنظم المحادث الم المحادث المحادث	435	172.3	3/14/94
XY		5,589,367	12/31/96	Donson et al.		435	172.3	1/19/94
RU		5,602,242	2/11/97	Ahlquist et al.		536	23.72	5/22/95
20	-	5,627,060	5/6/97	Ahlquist et al.	and the second s	435	172.3	6/7/95
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M		Austin <i>et al.</i> , "An Over Alfalfa," <i>Annals New</i>		• •	r the Production of Industria :234-244 (1994)	al Enzyn	nes in Trar	sgenic
XZY					e Quantitation of Microgram Biochem. <u>72</u> :248-254 (197		ties of Pro	tein
XV	-	De Wilde et al., "Intact of Arabidopsis thaliana			body and F _{ab} fragment accu 1 (1996)	mulate i	in intercell	ular spaces
Kr		Denecke <i>et al.</i> , "Protei (1990)	n Secretion i	n Plant Cells Can	Occur via a Default Pathw	ay," The		2:51-59
XIL		Firek et al., "Secretion suspension cultures,"		_	v protein in transgenic toba 61-870 (1993)	cco plar	nts and ce	
KL	/	Heitz <i>et al.</i> , "Two Apo 656 (1991)	plastic α-Amy	ylases Are Induce	ed in Tobacco by Virus Infecti	ion ¹ ," Pla	ant Physiol	. <u>97</u> :651-
gen	/				tridium thermocellum Expre			
X	/	Jervis, L. and Pierpoin 11:161-198 (1989)	t, W.S., <i>"</i> Pur	ification technolo	ogies for plant proteins," Jou	urnal of	Biotechno	logy
19KM		Jones, R. and Robinso	n, D., "Tansl	ey Review No.17	7 Protein secretion in plants	," New I	Phytology	<u>111</u> :567-

Jeffrey E. Russel

May 4.1999

Att mey D cket No. 00801.0135.999

09/132.989

		597 (1989)
	÷ 4	Kinai et al., "Processing and Secretion of a Virally Encoded Antifungal Toxin in Transgenic Tobacco Plants: Evidence for a Kex2p Pathway in Plants," The Plant Cell 7:677-688 (1995)
		Klement, Z., "Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens," Phytopathological Notes 55:1033-1034 (1965)
		Kumagai <i>et al.</i> , "Rapid, high-level expression of biologically active α-trichosanthin in transfected plants by an RNA viral vector," <i>Proc. Natl. Acad. Sci. USA</i> 90:427-430 (1993)
		Liu et al., "In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix," Plant Science 121:123-131 (1996)
	* * *	Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995)
		Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995)
er e e e e e e e e e e e e e e e e e e		Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996)
		Melchers et al., "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and 6-1,3-glucanase in transgenic plants," Plant Molecular Biology 21:583-593 (1993)
Veria:	e dele	Parent, J. and Asselin, A., "Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensitive plants infected with tobacco mosaic virus," Can. J. Bot. 62:564-569 (1984)
		Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves Plant Physiol. 53:317-318 (1974)
	1 32 34 1 2 37 .	Regalado, A. and Ricardo, C., Study of the Intercellular Fluid of Healthy <i>Lupinus albus</i> Organs, <i>Plants Physiol.</i> 110:227-232 (1996)
		Sato et al., "Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic Tobacco and Yeast," Biochemical and Biophysical Research Communications 211(3):909-913 (1995)
·		Sijmons et al., "Production of Correctly Processed Human Serum Albumin in Transgenic Plants," Bio/Technology 8:217-221 (1990)
		Turpen et al., "Malarial Epitopes Expressed on the Surface of Recombinant Tobacco Mosiac Virus," Bio/Technology 13:53-57 (1995)
		Van den Bulcke et al., "Characterization of vacuolar and extracellular ß(1,3)-glucanases of tobacco: Evidence for a strictly compartmentalized plant defense system," Proc. Natl. Acad. Sci. USA 86:2673-2677 (1989)
		Voss et al., "Reduced virus infectivity in N. tabacum secreting a TMV-specific full-size antibody," Molecular

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L	P	5,597,569	1-28-1997	Sie	sall et	<u>ما</u>		<u> </u>	424.	183.1
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LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)

PTO FORM 1449

ATTORNEY DOCKET NO. 00801.0135.999	APPLICATION SERIAL NO. 09/132,989	
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	4,885,248	12/5/89	Ahlquist	435	172.3	3/9/8	37
	5,173,410	12/22/92	Ahlquist	435	91	10/3	/89
	5,316,931	5/31/94	Donson et al.	435	172.3	7/31	/92
	5,466,788	11/14/95	Ahlquist et al.	536	24.1	8/25	/94
	5,500,360	3/19/96	Ahlquist et al.	435	172.3	3/14	/94
	5,589,367	12/31/96	Donson et al.	435	172.3	1/19	/94
	5,602,242	2/11/97	Ahlquist et al.	536	23.72	5/22	/95
	5,627,060	5/6/97	Ahlquist et al.	435	172.3	6/7/	95
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	l l		asibility Study for the Production of Industria y of Science 721:234-244 (1994)	l Enzym	nes in Tran	sgenio	;
			re Method for the Quantitation of Microgram e Binding," <i>Anal. Biochem.</i> 72:248-254 (197		ties of Pro	tein	-
			ling MAK33 antibody and F _{ab} fragment accur nce 114:233-241 (1996)	nulate i	n intercell	ular sp	aces
	Denecke et al., "Prote (1990)	in Secretion i	n Plant Cells Can Occur via a Default Pathwa	ay," The	Plant Celi	2:51-	59
	1		nal single-chain Fv protein in transgenic tobac lar Biology <u>23</u> :861-870 (1993)	cco plan	ts and cel	l	-
	Heitz <i>et al.</i> , "Two Apo	pplastic α-Am	ylases Are Induced in Tobacco by Virus Infection	on ¹ ," Pla	nt Physiol	<u>97</u> :6	51-
1		rmostable Xy	lanase from Clostridium thermocellum Expres	sed at	Hiah Level	s in th	e
		c Tobacco Ha	as No Detrimental Effects and is Easily Purific	ed," <i>Bio</i> ,		7y <u>13</u> :	

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	Kinai et al., "Processing and Secretion of a Virally Encoded Antifungal Toxin in Transgenic Tobacco Plants: Evidence for a Kex2p Pathway in Plants," The Plant Cell 7:677-688 (1995)			
	Klement, Z., "Method of Obtaining Fluid from the Intercellular Spaces of Foliage and the Fluid's Merit as Substrate for Phytobacterial Pathogens," <i>Phytopathological Notes</i> 55:1033-1034 (1965)			
	Kumagai <i>et al.</i> , "Rapid, high-level expression of biologically active α-trichosanthin in transfected plants by an RNA viral vector," <i>Proc. Natl. Acad. Sci. USA</i> 90:427-430 (1993)			
	Liu et al., "In vivo and in vitro activity of truncated osmotin that is secreted into the extracellular matrix," Plant Science 121:123-131 (1996)			
	Lowenthal et al., "Production of Interferon-y by Chicken T Cells," J. Interferon and Cytokine Res. 15:933-938 (1995)			
	Ma et al., "Generation and Assembly of Secretory Antibodies in Plants," Science 268:716-719 (1995)			
	Maggio et al., "Large Quantities of Recombinant PR-5 Proteins from the Extracellular Matrix of Tobacco: Rapid Production of Microbial-Recalcitrant Proteins," Plant Molecular Biology Reporter 14(3):249-260 (1996)			
	Melchers et al., "Extracellular targeting of the vacuolar tobacco proteins AP24, chitinase and ß-1,3-glucanase in transgenic plants," Plant Molecular Biology 21:583-593 (1993)			
	Parent, J. and Asselin, A., "Detection of pathogenesis-related proteins (PR or b) and of other proteins in the intercellular fluid of hypersensitive plants infected with tobacco mosaic virus," Can. J. Bot. 62:564-569 (1984)			
	Rathmell, W. and Sequeira, L., "Soluble Peroxidase in Fluid from the Intercellular Spaces of Tobacco Leaves," Plant Physiol. 53:317-318 (1974)			
	Regalado, A. and Ricardo, C., "Study of the Intercellular Fluid of Healthy Lupinus albus Organs," Plant Physiol. 110:227-232 (1996)			
	Sato et al., "Synthesis and Secretion of Tobacco Neutral PR-5 Protein by Transgenic Tobacco and Yeast," Biochemical and Biophysical Research Communications 211(3):909-913 (1995)			
	Sijmons et al., "Production of Correctly Processed Human Serum Albumin in Transgenic Plants," Bio/Technology 8:217-221 (1990)			
	Turpen et al., "Malarial Epitopes Expressed on the Surface of Recombinant Tobacco Mosiac Virus," Bio/Technology 13:53-57 (1995)			
	Van den Bulcke et al., "Characterization of vacuolar and extracellular ß(1,3)-glucanases of tobacco: Evidence for a strictly compartmentalized plant defense system," Proc. Natl. Acad. Sci. USA 86:2673-2677 (1989)			
	Voss et al., "Reduced virus infectivity in N. tabacum secreting a TMV-specific full-size antibody," Molecular Breeding 1:39-50 (1995)			
EXAMINER	DATE CONSIDERED			

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